Positive Direction	GLDAS-1				GLDAS-2
Variable Name	Noah	CLM	Mosaic	VIC	Noah
	(1 & 0.25deg)				
Total	Upward	Upward	Upward	Upward	Upward
evapotranspiration					
Snowmelt	Solid to	Solid to	Solid to	Solid to	Solid to
	Liquid	Liquid	Liquid	Liquid	Liquid
Net shortwave	Downward	Downward	Downward	n/a	Downward
radiation					
Net longwave	Downward	Downward	Downward	n/a	Downward
radiation					
Latent heat flux	Upward	Upward	Upward	n/a	Upward
Sensible heat flux	Upward	Upward	Upward	n/a	Upward
Snowfall rate	Downward	Downward	Downward	Downward	Downward
Rainfall rate	Downward	Downward	Downward	Downward	Downward
Ground heat flux	Downward	Downward	Downward	n/a	Downward
Surface incident	Downward	Downward	Downward	Downward	Downward
shortwave					
radiation					
Surface incident	Downward	Downward	Downward	Downward	Downward
longwave					
radiation					
Subsurface runoff	Out of grid	Out of grid	Out of grid	Out of grid	Out of grid
Surface runoff	Out of grid	Out of grid	Out of grid	Out of grid	Out of grid

Positive Direction	NLDAS-2		
Variable Name	Noah	Mosaic	
Total	Upward	Upward	
evapotranspiration			
Direct evaporation	Upward	Downward	
from base soil			
Canopy water	Upward	Downward	
evaporation			
Sublimation	Upward	Downward	
(evaporation from			
snow)			
Transpiration	Upward	Downward	
		(Upward	
		on/after 9	
		March 2008)	
Snowmelt	Solid to	Solid to	
	Liquid	Liquid	
Snow phase-	Solid to	Liquid to	
change heat flux	Liquid	Solid	
Net shortwave	Downward	Downward	
radiation			
Net longwave	Downward	Downward	
radiation			
Latent heat flux	Upward	Upward	
Sensible heat flux	Upward	Upward	
Snowfall rate	Downward	Downward	
Rainfall rate	Downward	Downward	
Ground heat flux	Downward	Downward	
Surface incident	Downward	Downward	
shortwave			
radiation			
Surface incident	Downward	Downward	
longwave			
radiation			
Subsurface runoff	Out of grid	Out of grid	
Surface runoff	Out of grid Out of grid		